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## Jennie O Foods Inc. Roasted Turkey Breast Trial March 21, 2000

The following report concerns a cooking trial conducted by Unitherm Food Systems Inc. on behalf of Jennie O Foods Inc.

The product consisted of eight pieces of injected turkey breast whole muscle with the skin on. The dimensions of the product uncooked, were approximately  $10^{\circ} \times 6^{\circ} \times 3^{\circ}$  and the average weight was 4.39 lb.

The product was placed inside an unsealed vacuum pack bag with the open end folded underneath the product. It was chilled to below 40° F and then roasted in a Unitherm rotisserie for 86 minutes at 390° F. The internal temperature was measured at 162° F after roasting.

The average yield was 77.8%. The dimensions of the product after roasting were approximately  $8\frac{1}{2}$  x 5" x 3" and the average weight was 3.42 lb.

The color was uniformly brown with dark highlights where the purge had caramelized. On all the samples, the bag had shrunk and had defined the shape of the meat. In some places the bag had burned. The results matched the sample provided by Jennie O Foods. It should be noted however, that the sample measured 7" x 4½" x 3" and weighed only 2.64 lb suggesting that it was a significantly smaller piece compared to the pieces we used for the trial. If this is the case, we estimate the processing time on the smaller cut of meat would be near to 80 minutes.

It can also be seen that the core temperature continued to rise after the meat had been taken out of the oven. This could be used to reduce the processing time.

Enclosed are the data sheets and the temperature profile taken during the trial.

Regards

David Atkinson Area Sales Manager

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	UNITHERM Food Syst	Food S	vst ms	. Inc.					Date: March 21, 2000		۲ :
	Cooking Trial Data	rial Data		NI.							1546
			Product:	1	Turbery Breast	هد هد		Supplied By:	By: Jamie O Foods	مرا	۲00 <sup>,</sup>
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			Zone 1	Ethnys/							•
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	sample	· Stront		Learner ature		40°F
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			Product:	Pouned	ed Ham	1		Supplied By:	By: Iona Ham-
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			Product:		PROCESSED	HAM		Supplied By:	By: Towa Ham
Toet	Bet S	9 E	Tempr		خ سا	Cooked	Ploi2	Internal Temp E	
			Zone 1	Ethnika					Notice to
#		18 min	475	Fan 2043	11.825	11.59	98%	Core 36.1'F 1" in 58 P Surfad 180'F	Core terms at Strant 38.1°F. IR fill dusell time Aminutes. Loaf
<b>\$</b>		23 win	475	Fore	+8·11	11.52	97.3%	Care 38.17 In to 62.6 Surface 1207	
<b>3</b>		28 min	475	Fau. 2043	11. 75	11.31	96.3%	Core 34.17 1: in 63.6 furface 1207	foor
*		28 win	475 (1848)	Four 2043	14.74	<u>تر</u> . ا	95.7%		Bound hindth mays across oven belt
<b>\$</b>		18 win	± 475	Faur 2042	12.355	12.60	% 86		Watered Block
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UNIT	HERM	UNITHERM Food Systems	ystems	s, Inc.					Date: April 8, 2000
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	٠		Product	Processed		Henn		Supplied	By: Iowa Ham
Test #	Speed	Cook	Temper	Start Temperatures C. Welcht	Start Weight	Cooked	Yield	Internal Temo. F	
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UNIT	HERM	UNITHERM Food Systems	ystems	s, Inc.					Date: May II, 2000
ၓ	oking T	Cooking Trial Data							
			Product:		Processed Ham	***		Supplied By:	By: Lowa Ham Ports 3
Te t#	Belt Speed	Cook	Temper	Temperatures	Start Weight	Cooked Weight	Yield	Internal Temp. F.	Remarks
			Zone 1	Zone 2	-Je	Ŧ		@ Strant	
#		18 min			12.265	8F-11	95.64%	306	liquid smoke ditution 50% 18 90ill for 2 him
2		18 win	7° 274		090·181	595 - ) (	%18·Sb	3018	uid Suno Grill
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